

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

Claim 1. (currently amended): A component of a radiation detector comprising:
a substrate;

a photoelectric element arranged on a portion on of an upper surface of the substrate and having a first pad on a light receiving surface, the photoelectric element generating an electrical signal based on an intensity of received light;

a pad formation section arranged on a portion on of the upper surface of the substrate and different from the portion on which the photoelectric element is arranged; and

a second pad formed on the pad formation section, arranged to form a same plane as a plane of the first pad arranged on the light receiving surface of the photoelectric element, and electrically connected to the first pad.

Claim 2. (previously presented): The component according to claim 1, wherein the first pad is electrically connected to the second pad by a bonding wire.

Claim 3. (previously presented): The component according to claim 1, further comprising:

a third pad arranged on a rear surface of the substrate; and
a three-dimensional wiring electrically connecting the second pad to the third pad.

Claim 4. (previously presented): The component according to claim 1, wherein the substrate is an MIS substrate; and
the three-dimensional wiring is formed by the MID substrate.

Claim 5. (previously presented): The component according to claim 1, wherein the three-dimensional wiring includes a through hole formed to penetrate the substrate.

Claim 6. (previously presented): The component according to claim 1, wherein the substrate and the pad formation section are formed integrally with each other.

Claim 7. (previously presented): A component of a radiation detector comprising:
an MID substrate and a photodiode array provided to contact with the MID substrate;
a pad formation protrusion provided on an upper surface of the MID substrate on a side
contacting with a lower surface of the photodiode array, an upper end face of the pad formation
protrusion being equal in height to an upper surface of the photodiode array;
first pads provided on upper surfaces of photodiodes of the photodiode array, respectively
in a section adjacent the pad formation protrusion;
second pads provided on the upper end face of the pad formation protrusion in a section
adjacent the first pad;
a bonding wire provided between one of the first pads and corresponding one of the
second pads;
a wiring pattern provided on the upper surface of the MID substrate contacting with the
photodiode array;
first terminals as many as the second pads and one second terminal provided on a lower
surface of the MID substrate, wherein
the second pads and the first terminals are electrically connected to one another in a one-
to-one correspondence; and the wiring pattern is electrically connected to the second terminal.

Claims 8.-29. (cancelled)

Claim 30. (previously presented): The component according to claim 7, wherein
a positioning groove or a positioning protrusion which positions the photodiode array is
provided on the upper surface of the MID substrate.